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TITLE: OPTICAL FIBER SWITCH

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ABSTRACT:

PURPOSE: To realize a precise switch by easy assembling and to form a multicore batch switch by providing circular positioning guide pins between plugs in two states before and after the switching of an optical fiber switch, and circular holes and rectangular holes which are formed in the plug themselves.

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CONSTITUTION: An input-side optical fiber 1 is arranged in the input-side plug 9 of the optical switch and optical fibers 1' and 2' are arranged in the output-side plug 10 at a center interval. The circular holes 11 with an external diameter D are formed in the plug 9 on both sides of the fiber 1, and the circular guide pins 12 are inscribed with the circular holes 11 so that their one-end sides project by specific length. Further, the rectangular holes 13 which have long sides of length $D+P$ and short sides of length D are formed on both sides of the fibers 1' and 2'. The projection parts of the pins 12 of the input-side plug 9 are inserted into the holes 13 of the output side and the plugs 9 and 10 are set in an abutting state to fix the plug 9; and the plug 10 is pressed upward or downward to realize the accurate switch by the easy assembly.

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